

* NOTICES *

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CLAIMS

[Claim(s)]

[Claim 1]A substrate, the 1st electrode formed on said substrate, and a luminous layer by electroluminescence material on said 1st electrode formed in part at least, A lamination type EL element display device, wherein it countered with said luminous layer, it had said 1st electrode and the 2nd electrode formed in a deenergization state and said at least one said substrate, said 1st electrode, or 2nd electrode side is formed with light transmittance state material.

[Claim 2]The lamination type EL element display device according to claim 1 with which said luminous layer and said 2nd electrode were isolated, and an insulating layer which insulates said 1st electrode and said 2nd electrode was formed.

[Claim 3]The lamination type EL element display device according to claim 2 being the structure where both sides of said substrate, said 1st electrode and said 2nd electrode, and said insulating layer are formed with light transmittance state material, and luminescence is viewed by both sides of a luminous layer.

[Claim 4]The lamination type EL element display device according to claim 3 with which said insulating layer was formed with a dielectric.

[Claim 5]The lamination type EL element display device comprising according to claim 1:
The 1st conductivity terminal area for light emission voltage impression by which said a part of 1st electrode is further connected on said substrate.
The 2nd conductivity terminal area for light emission voltage impression by which said a part of 2nd electrode is connected.

[Claim 6]The lamination type EL element display device according to claim 5 being the circuit pattern formed that said 1st conductivity terminal area and said 2nd conductivity terminal area screen-stencil high conductivity metal on said substrate, or by etching high conductivity metal.

[Claim 7]The lamination type EL element display device according to claim 1, wherein face shape of said 1st electrode is substantially [as face shape of said luminous layer] in agreement.

[Claim 8]The lamination type EL element display device according to claim 1 forming a protective layer on said 2nd electrode.

[Claim 9]The lamination type EL element display device according to claim 1, wherein said luminous layer is a mixed material of electroluminescence material and a dielectric material.

[Claim 10]The lamination type EL element display device according to claim 1 or 9 forming a light-emitting part constituted by said substrate, said 1st electrode, said luminous layer, and said insulating layer and said 2nd electrode so that a predetermined pattern may be displayed on said substrate.

[Claim 11]The lamination type EL element display device according to claim 10, wherein said pattern is shown except for said light-emitting part by printing including color.

[Claim 12]The lamination type EL element display device according to claim 1, wherein said 1st electrode that has said light transmittance state is indium tin oxide (ITO).

[Claim 13]The lamination type EL element display device according to claim 1 characterized by what said luminous layer is ZnS and high conductivity metal which forms said 2nd electrode is Cu or Ag.

[Claim 14]The lamination type EL element display device according to claim 1 with which said substrate is characterized by a deformable thing.

[Claim 15]The 1st process of forming the 1st electrode with light transmittance state conductivity by screen-stencil on a substrate which penetrates light, The 2nd process of laminating and forming a luminous layer on said 1st electrode according to electroluminescence material in part at least by screen-stencil, The 3rd process of counteracting said luminous layer in a wrap insulating layer at said luminous layer the 3rd process formed by screen-stencil, and on said insulating layer, and forming the 1st electrode and the 2nd electrode of a deenergization state by screen-stencil, A manufacturing method of a lamination type EL element display device which said 1st process being consisted of by the 4th process for drying a formation material in the 4th process, and each process of **.

[Claim 16]On said substrate, the 1st conductivity terminal area for light emission voltage impression by which said a part of 1st electrode is connected is formed by screen-stencil, A manufacturing method of the lamination type EL element display device according to claim 15 formed by screen-stencil in the 2nd conductivity terminal area for light emission voltage impression by which said a part of 2nd electrode is connected.

[Claim 17]A manufacturing method of the lamination type EL element display device according to claim 16 which said insulating layer is light transmittance state material with conductivity, is formed by screen-stencil in the light transmittance state material concerned, and is formed in

said luminous layer and inter-electrode [said / 2nd] by screen-stencil in a dielectric layer.

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[Translation done.]